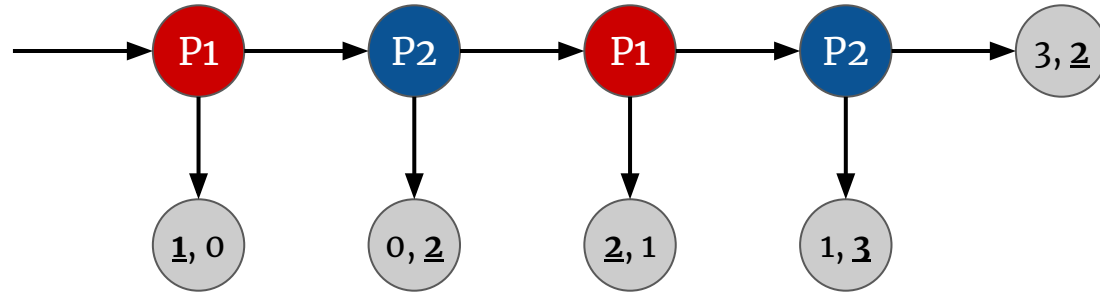


Alternatives to Direct Selfishness

Game Theory Exploration

Selfishness Being Self-Defeating:

Centipede Game:



Prisoner's Dilemma:

P2

	C	D
P1	2, 2	-3, 4
	-3, 4	-2, -2

Idea: Conversation Stopping Points (or sets)

Look for strategy pairs (s_1, s_2) such that:

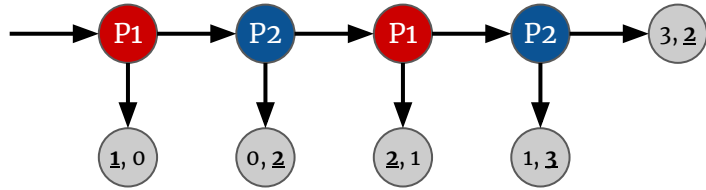
P1 is not selfishly incentivised to change given P2 is allowed a response.

(And vice versa)

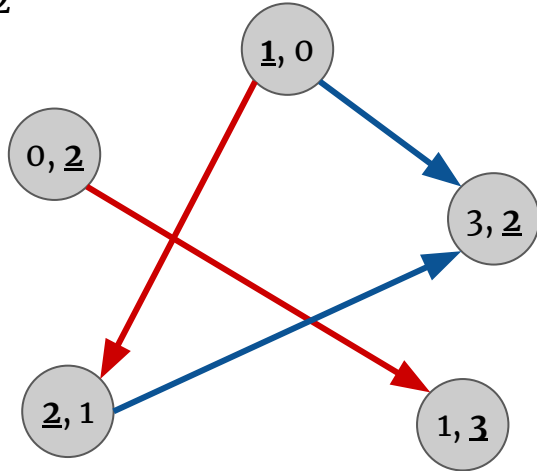
Consider doing this for infinitely many steps rather than 2.

Can model with just 2 and 3.

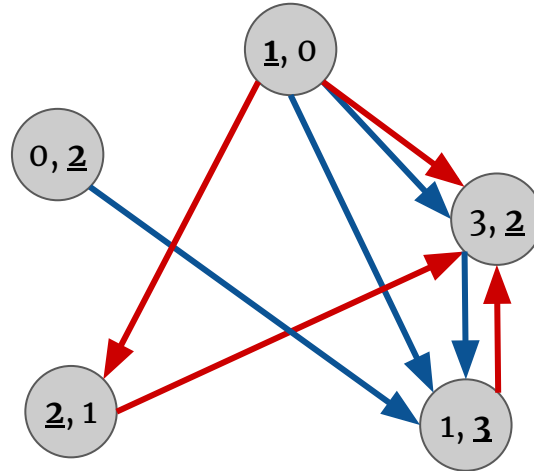
Create Directed Graph. Find Solution Sets.



For 2



For 3



Pseudocode

Directed graph creation:

For every strategy pair (s_1, s_2) :

 For both the 2-step and 3-step cases:

 Compute set S of strategy pairs moved to $\{(s_3, s_4), \text{etc.}\}$

 For pair p in S :

 Add directed edge from $\text{outcome}((s_1, s_2))$ to $\text{outcome}(p)$

Finding cycles:

[I don't know these kernels yet.]